Name of the Work : Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :-

Name of Agency :-M/s Karthik Enterprises

Bill No :- 1st Part Bill

Measurements recorded on

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 (P.No.137, I.No.18.20 of PW,P&IWTD SR 2016-17)									
	Main Road Culverts									
	0.00	8.50		1	8.50			1.50	0.20	2.55	SWD Connecting Culvert
	0.00	12.00		1	12.00			1.50	0.20	3.60	At Ch 93 to 95
	0.00	12.70		1	12.70			1.50	0.20	3.81	At Ch 198.4 to 200
	0.00	9.50		1	9.50			1.40	0.20	2.66	At Devinagara Junction
	Footbath Concrete									
	0.00	30.00		1	30.00			1.25	0.15	5.63	
	30.00	50.00		1	20.00			1.25	0.15	3.75	
							Total Qty in Cum			**22.00**	

CONSULTANTS

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)										
	Lottegollahalli main Road										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		1	10.50			0.90		0.00	New Bs Cover
	10.50	17.80		1	7.30			1.50		10.95	1st Cross Culvert R&R
	17.80	49.30		1	31.50			0.90		28.35	Existing BS Cover
	49.30	55.60		1	6.30			1.50		9.45	3rd Cross Culvert R&R
	55.60	75.00		1	19.40			—			New Bs Cover
	75.00	79.40		1	4.40			1.50		6.60	5th Cross Culvert R&R
	79.40	103.00		1	23.60			—			New Bs Cover
	LHS From Devinagra Junction to towards Jalagaradamma temple										Total Length New Bs Cover
	LHS Devinagra Main Road From Junction										
	0.00	28.50		1	28.50			0.90		25.65	Existing BS Slab Cover
	28.50	34.30		1	5.80			—			Apartment Entry
	34.30	43.50		1	9.20			0.90		0.00	New BS Cover
	43.50	73.50		1	30.00			0.90		0.00	New BS Cover
	73.50	82.00		1	8.50			0.90		0.00	New BS Cover
	82.00	90.00		1	8.00			—			Apartment Entry
	90.00	93.50		1	3.50			0.90		0.00	New Precast Cover
	93.50	113.50		1	20.00			0.90		0.00	New Precast Cover
	113.50	134.00		1	20.50			0.90		0.00	New Precast Cover
	134.00	164.00		1	30.00			0.90		0.00	New Precast Cover
	164.00	194.00		1	30.00			0.90		0.00	New Precast Cover
	194.00	208.20		1	14.20			0.90		0.00	New Precast Cover
							Total Qty in Sqm			**81.00**	

CONSULTANTS

Consultant

Assistant Engineer 10/10/17

Assistant Executive Engineer 10/10/17

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli

Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
4	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	Lottegollahalli main Road Drain Side Wall Concrete										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		1	10.50			1.10	0.90	10.40	New Drain
	10.50	17.80		1	7.30			0.90	0.60	3.94	1st Cross Culvert Desilt
	17.80	49.30		1	31.50			1.10	0.90	31.19	New Drain
	49.30	55.60		1	6.30			0.90	0.60	3.40	3rd Cross Culvert Desilt
	55.60	75.00		1	19.40			1.10	0.90	19.21	New Drain
	75.00	79.40		1	4.40			0.90	0.60	2.38	5th Cross Culvert Desilt
	79.40	103.00		1	23.60			1.10	1.00	25.96	New Drain
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	27.00		1	27.00						Not Done
	27.00	33.80		1	6.80						2nd Cross Road
	33.80	61.80		1	28.00			1.10	0.95	30.80	New Drain
	61.80	66.40		1	4.60				—		4th Cross Road
	66.40	97.00		1	30.60			1.10	0.95	33.66	New Drain
	97.00	102.60		1	5.60				—		6th Cross Road
	102.60	116.00		1	13.40			1.10	0.95	14.74	New Drain
	116.00	172.60		1	56.60				—		Not Done
	172.60	181.00		1	8.40				—		8th Cross Road
	181.00	203.70		1	22.70				—		Not Done
	203.70	209.40		1	5.70				—		10th Cross road
	209.40	240.50		1	31.10			1.10	0.95	34.21	New Drain
	240.50	247.50		1	7.00				—		12th cross road
	247.50	262.20		1	14.70			1.10	0.90	16.17	New Drain
	262.20	268.00		1	5.80				—		Culvert 250mm New Slab
	268.00	307.00		1	39.00			1.10	0.90	42.90	New Drain
	LHS Lottegollahalli Main Road To Ring Road								—		
	0.00	28.50		1	28.50			1.10	0.95	29.78	
	28.50	34.30		1	5.80				—		Apartment Entry
	34.30	43.50		1	9.20			1.10	0.95	9.61	
	43.50	73.50		1	30.00			1.10	0.95	31.35	
	73.50	82.00		1	8.50			1.10	1.00	9.35	
	82.00	90.00		1	8.00			1.10	1.20	10.56	Krishna Apartment Entry
	90.00	93.50		1	3.50			1.10	1.00	3.85	
	93.50	113.50		1	20.00			1.10	1.05	23.10	
	113.50	134.00		1	20.50			1.10	1.05	23.68	
	134.00	164.00		1	30.00			1.10	1.05	34.65	
	164.00	194.00		1	30.00			1.10	1.10	36.30	
	194.00	208.20		1	14.20			1.10	1.10	17.18	
	Main Road Culvert								—		
	0.00	8.50		1	8.50			1.60	1.50	20.40	SWD Connecting Culvert
	0.00	12.00		1	12.00			1.60	1.30	24.96	At Ch 93-95 Lkr Nagara ch
	0.00	12.70		1	12.70			1.60	1.30	26.42	At Ch 198.4-200 Lkr Nagara ch
	0.00	9.50		1	9.50			1.60	1.50	22.80	At Devinagara Junction
							Total Qty in Cum			**592.94**	

CONSULTANT

Consultant

Assistant Engineer 13/10/17

Assistant Executive Engineer 13/10/17

Assistant Executive Engineer,
Kodigenalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli											
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)										
	Lottegollahalli main Road Drain Raft Concrete										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		1	10.50			1.10	0.10	1.16	New Drain
	17.80	49.30		1	31.50			1.10	1.00	34.65	
	55.60	75.00		1	19.40			1.10	0.10	2.13	
	79.40	103.00		1	23.60			1.10	0.10	2.60	
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	33.80	61.80		1	28.00			1.10	0.10	3.08	
	66.40	97.00		1	30.60			1.10	0.10	3.37	
	102.60	116.00		1	13.40			1.10	0.10	1.47	
	209.40	240.50		1	31.10			1.10	0.10	3.42	
	247.50	262.20		1	14.70			1.10	0.10	1.62	
	268.00	307.00		1	39.00			1.10	0.10	4.29	
	LHS Lottegollahalli Main Road To Ring Road										
	0.00	28.50		1	28.50			1.10	0.10	3.14	
	34.30	43.50		1	9.20			1.10	0.10	1.01	
	43.50	73.50		1	30.00			1.10	0.10	3.30	
	73.50	82.00		1	8.50			1.10	0.10	0.94	
	82.00	90.00		1	8.00			1.10	0.10	0.88	Krishna Apartment Entry
	90.00	93.50		1	3.50			1.10	0.10	0.39	
	93.50	113.50		1	20.00			1.10	0.10	2.20	
	113.50	134.00		1	20.50			1.10	0.10	2.26	
	134.00	164.00		1	30.00			1.10	0.10	3.30	
	164.00	194.00		1	30.00			1.10	0.10	3.30	
	194.00	208.20		1	14.20			1.10	0.10	1.56	
	Main Road Culvert										
	0.00	8.50		1	8.50			1.60	0.15	2.04	SWD Connecting
	0.00	12.00		1	12.00			1.60	0.15	2.88	At Ch 93-95 Lkr Nagara ch
	0.00	12.70		1	12.70			1.60	0.15	3.05	At Ch 198.4-200 Lkr Nagara ch
	0.00	9.50		1	9.50			1.60	0.15	2.28	At Devinagara Junction
							Total Qty in Cum			**90.30**	

Consultant

23/10
Assistant Engineer

Assistant Executive Engineer

Executive Engineer
Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli											
B Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
6	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)										
	Lottegollahalli main Road Drain Raft Concrete										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		1	10.50			0.90	0.15	1.42	
	17.80	49.30		1	31.50			0.90	0.15	4.25	
	55.60	75.00		1	19.40			0.90	0.15	2.62	
	79.40	103.00		1	23.60			0.90	0.15	3.19	
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	33.80	61.80		1	28.00			0.90	0.15	3.78	
	66.40	97.00		1	30.60			0.90	0.15	4.13	
	102.60	116.00		1	13.40			0.90	0.15	1.81	Upto 8th Cross Road
	209.40	240.50		1	31.10			0.90	0.15	4.20	After 10th Cross Road
	247.50	262.20		1	14.70			0.90	0.15	1.98	
	268.00	307.00		1	39.00			0.90	0.15	5.27	
	LHS Lottegollahalli Main Road To Ring Road										
	0.00	28.50		1	28.50			0.90	0.15	3.85	
	34.30	43.50		1	9.20			0.90	0.15	1.24	
	43.50	73.50		1	30.00			0.90	0.15	4.05	
	73.50	82.00		1	8.50			0.90	0.15	1.15	
	82.00	90.00		1	8.00			0.90	0.15	1.08	Krishna Apartment Entry
	90.00	93.50		1	3.50			0.90	0.15	0.47	
	93.50	113.50		1	20.00			0.90	0.15	2.70	
	113.50	134.00		1	20.50			0.90	0.15	2.77	
	134.00	164.00		1	30.00			0.90	0.15	4.05	
	164.00	194.00		1	30.00			0.90	0.15	4.05	
	194.00	208.20		1	14.20			0.90	0.15	1.92	
	Lottegollahalli main Road Drain Side Wall Concrete										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		2	10.50			0.15	0.65	2.05	
	17.80	49.30		2	31.50			0.15	0.60	5.67	
	55.60	75.00		2	19.40			0.15	0.60	3.49	
	79.40	103.00		2	23.60			0.15	0.70	4.96	
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	33.80	61.80		2	28.00			0.15	0.60	5.04	
	66.40	97.00		2	30.60			0.15	0.60	5.51	
	102.60	116.00		2	13.40			0.15	0.60	2.41	
	209.40	240.50		2	31.10			0.15	0.60	5.60	
	247.50	262.20		2	14.70			0.15	0.60	2.65	
	268.00	307.00		2	39.00			0.15	0.55	6.44	
	LHS Lottegollahalli Main Road To Ring Road										
	0.00	28.50		2	28.50			0.15	0.60	5.13	
	34.30	43.50		2	9.20			0.15	0.70	1.93	
	43.50	73.50		2	30.00			0.15	0.70	6.30	
	73.50	82.00		2	8.50			0.15	0.75	1.91	
	82.00	90.00		2	8.00			0.15	0.75	1.80	Krishna Apartment Entry
	90.00	93.50		2	3.50			0.15	0.75	0.79	
	93.50	113.50		2	20.00			0.15	0.80	4.80	
	113.50	134.00		2	20.50			0.15	0.80	4.92	
	134.00	164.00		2	30.00			0.15	0.80	7.20	
	164.00	194.00		2	30.00			0.15	0.85	7.65	
	194.00	208.20		2	14.20			0.15	0.90	3.83	
							Total Qty in Cum			**150.04**	

Consultant

Assistant Engineer 28/11 13/11

Assistant Executive Engineer 13/11/17

Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
B Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
7	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)										
	Main Road Culvert										
	0.00	8.50		2	8.50				0.25	4.25	SWD Connecting
	0.00	12.00		2	12.00				0.25	6.00	At Ch 93-95 Lkr Nagara ch
	0.00	12.70		2	12.70				0.25	6.35	At Ch 198.4-200 Lkr Nagara ch
	0.00	9.50		2	9.50				0.25	4.75	At Devinagara Junction
							Total Qty in Sqm			**21.35**	

Consultant

Assistant Engineer 4.10.18
30/10

Assistant Executive Engineer 30/10/18

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli											
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
8	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)										
	Main Road Culvert										
	0.00	8.50		4	8.50				0.90	30.60	SWD Connecting
	0.00	12.00		4	12.00				0.80	38.40	At Ch 93-95 Lkr Nagara ch
	0.00	12.70		4	12.70				0.80	40.64	At Ch 198.4-200 Lkr Nagara ch
	0.00	9.50		4	9.50				0.80	30.40	At Devinagara Junction
							Total Qty in Sqm			140.04	

Consultant

Assistant Engineer W.08 2/11/17

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
9	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) *Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary* beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)										
	Culvert Raft Concrete										
	Main Road Cross Culvert										
	0.00	8.50		1	8.50			1.40	0.25	2.98	SWD Connecting
	0.00	12.00		1	12.00			1.40	0.25	4.20	At Ch 93 to 95
	0.00	12.70		1	12.70			1.40	0.25	4.45	At Ch 198.4 to 200
	0.00	9.50		1	9.50			1.40	0.25	2.38	At Devinagara Junction
	Culvert Side Wall Concrete										
	Main Road Cross Culvert										
	0.00	8.50		2	8.50			0.25	0.90	3.83	SWD Connecting
	0.00	12.00		2	12.00			0.25	0.80	4.80	At Ch 93 to 95
	0.00	12.70		2	12.70			0.25	0.80	5.08	At Ch 198.4 to 200
	0.00	9.50		2	9.50			0.25	0.80	15.20	At Devinagara Junction
							Total Qty in Sqm			**42.90**	

Consultant

Assistant Engineer 12/12/17

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
10	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
							Unit weight of steel / meter			
	New Drain									
	10mm main U bars									
	Main bars	1	4442	2.20				0.617	6029.57	
	Distribution bars									
	8mm Distribution bars	1	9	444.20				0.395	1579.13	
	Culvet									
	12 main U bars									
	inner main bars	1	427.00	2.80				0.889	1062.89	
	outer main bars	1	427.00	3.20				0.889	1214.73	
	Distribution bars									
	10mm Dia bars									
	inner main bars	1	20	42.70				0.617	526.92	
	outer main bars	1	22	42.70				0.617	579.61	
	chairs 12mm dia	1	43	0.6				0.889	22.78	
									11015.62	**Kgs**
								Total	**11.02**	**MT**

Consultant

Assistant Engineer N.08 28/10

Assistant Executive Engineer 28/10/12

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
11	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)										
	Lottegollahalli main Road										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		1	10.50			0.90		9.45	New BS Cover
	55.60	75.00		1	19.40			0.90		17.46	New Bs Cover
	79.40	103.00		1	23.60			0.90		21.24	New BS Cover
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	33.80	61.80		1	28.00			0.90		25.20	New BS Cover
	66.40	97.00		1	30.60			0.90		27.54	New BS Cover
	102.60	116.00		1	13.40			0.90		12.06	New BS Cover
	209.40	240.50		1	31.10			0.90		27.99	New BS Cover
	247.50	262.20		1	14.70			0.90		13.23	New BS Cover
	268.00	307.00		1	39.00			0.90		35.10	New BS Cover
	LHS Lottegollahalli Main Road To Ring Road										
	34.30	43.50		1	9.20			0.90		8.28	New BS Cover
	43.50	73.50		1	30.00			0.90		27.00	New BS Cover
	73.50	82.00		1	8.50			0.90		7.65	New BS Cover
							Total Qty in Sqm			**232.20**	

Consultant

Assistant Engineer
W.08
27/11

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
12	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications, (only chamfered length shall be recorded) KBS 5.1.13 (P.No.24, I.No.5.22 of PW,P&IWTD SR 2016-17)										
	Lottegollahalli main Road										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		18.00				3.00		54.00	New Bs Cover
	17.80	49.30		53.00				3.00		159.00	Existing Bs Cover
	55.60	75.00		32.00				3.00		96.00	New Bs Cover
	79.40	103.00		39.00				3.00		117.00	New Bs Cover
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	33.80	61.80		47.00				3.00		141.00	New BS Cover
	66.40	97.00		51.00				3.00		153.00	New BS Cover
	102.60	116.00		22.00				3.00		66.00	New BS Cover
	209.40	240.50		52.00				3.00		156.00	New BS Cover
	247.50	262.20		25.00				3.00		75.00	New BS Cover
	268.00	307.00		65.00				3.00		195.00	New BS Cover
	LHS Lottegollahalli Main Road To Ring Road										
	0.00	28.50		48.00				3.00		144.00	Existing BS Slab Cover
	34.30	43.50		15.00				3.00		45.00	New BS Cover
	43.50	73.50		50.00				3.00		150.00	New BS Cover
	73.50	82.00		14.00				3.00		42.00	New BS Cover
							Total Qty in Rmt			**1593.00**	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
13	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.23, I.No.5.17 of PW,P&IWTD SR 2016-17)										
	Lottegollahalli main Road										
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	10.50		18.00	0.60				0.90	9.72	New Bs Cover
	17.80	49.30		53.00	0.60				0.90	28.62	Existing Bs Cover
	55.60	75.00		32.00	0.60				0.90	17.28	New Bs Cover
	79.40	103.00		39.00	0.60				0.90	21.06	New Bs Cover
	LHS From Devinagra										
	33.80	61.80		47.00	0.60				0.90	25.38	New BS Cover
	66.40	97.00		51.00	0.60				0.90	27.54	New BS Cover
	102.60	116.00		22.00	0.60				0.90	11.88	New BS Cover
	209.40	240.50		52.00	0.60				0.90	28.08	New BS Cover
	247.50	262.20		25.00	0.60				0.90	13.50	New BS Cover
	268.00	307.00		65.00	0.60				0.90	35.10	New BS Cover
	LHS										
	0.00	28.50		48.00	0.60				0.90	25.92	Existing BS Slab Cover
	34.30	43.50		15.00	0.60				0.90	8.10	New BS Cover
	43.50	73.50		50.00	0.60				0.90	27.00	New BS Cover
	73.50	82.00		14.00	0.60				0.90	7.56	New BS Cover
							Total Qty in Sqm			**286.74**	

Consultant

Assistant Engineer 27/11

Assistant Executive Engineer 27/11/18

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
21	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)									
	Main Road Cross Culvert									
	0.00	8.50		1	8.50			1.50		12.75 Swd Connecting Culvert
	0.00	12.00		1	12.00			1.50		18.00 At Ch 93 to 95
	0.00	12.70		1	12.70			1.50		19.05 At Ch 198.4 to 200
	0.00	9.50		1	9.50			1.50		14.25 At Devinagara Junction
	LHS From Devinagra Junction to towards Jalagaradamma temple									
	262.20	268.00		1	5.80			1.50		8.70 Culvert 250mm New Slab
	LHS Lottegollahalli Main Road To Ring Road									
	82.00	90.00		1	8.00			1.20		9.60 Krishna Apartment Entry
							Total Qty in Sqm		**82.35**	

Consultant

Assistant Engineer 30/11

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli										
P[redacted] Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
22	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)									
	Lottegollahalli main Road									
	RHS From Devinagra Junction to towards Jalagaradamma temple									
	0.00	10.50		1	10.50			/0.45		23.00
	17.80	49.30		1	31.50			/0.45		70.00
	55.60	75.00		1	19.40			/0.45		43.00
	79.40	103.00		1	23.60			/0.45		52.00
	LHS From Devinagra Junction to towards Jalagaradamma temple									
	33.80	61.80		1	28.00			/0.45		62.00
	66.40	97.00		1	30.60			/0.45		68.00
	102.60	116.00		1	13.40			/0.45		30.00
	209.40	240.50		1	31.10			/0.45		69.00
	247.50	262.20		1	14.70			/0.45		33.00
	268.00	307.00		1	39.00			/0.45		87.00
							Total Qty in Nos		**537.00**	

Consultant

Assistant Engineer
30/11

Assistant Executive Engineer
30/11

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli											
Bill Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
25	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	32.50			32.50	1.50	1.50	1.50	0.30	14.63	Bwssb Cut Portion
	32.50	67.00			34.50	3.25	4.00	3.63	0.30	37.52	Bwssb Cut and Widening
	67.00	81.00			14.00	1.50	1.50	1.50	0.30	6.30	Bwssb Cut Portion
	81.00	111.00			30.00	4.60	2.50	3.55	0.30	31.95	Bwssb Cut and Widening
	111.00	141.00			30.00	1.00	1.00	1.00	0.30	9.00	Bwssb Cut Portion
	141.00	171.00			30.00	1.00	1.00	1.00	0.30	9.00	Bwssb Cut Portion
	171.00	201.00			30.00	1.00	1.40	1.20	0.30	10.80	Bwssb Cut Portion
	201.00	231.00			30.00	1.40	1.20	1.30	0.30	11.70	Bwssb Cut Portion
	231.00	261.00			30.00	1.20	0.70	0.95	0.30	8.55	Bwssb Cut Portion
	261.00	291.00			30.00	0.70	0.70	0.70	0.30	6.30	Bwssb Cut Portion
	351.00	381.00			30.00	2.20	2.00	2.10	0.30	18.90	Bad Reaches
	381.00	404.00			11.00	2.30	2.30	2.30	0.30	7.59	Bad Reaches
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	32.50			17.50	0.60	0.60	0.60	0.30	3.15	Widening Portion
	32.50	67.00			34.50	0.60	0.70	0.65	0.30	6.73	Widening Portion
	67.00	81.00			14.00	0.90	0.70	0.80	0.30	3.36	Widening Portion
							Total Qty in Cum			**185.47**	

Consultant

Assistant Engineer 4/12

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli											
Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
26	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)										
	LHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	32.50			32.50	1.50	1.50	1.50	0.23	11.21	Bwssb Cut Portion
	32.50	67.00			34.50	3.25	4.00	3.63	0.23	28.76	Bwssb Cut and Widening
	67.00	81.00			14.00	1.50	1.50	1.50	0.23	4.83	Bwssb Cut Portion
	81.00	111.00			30.00	4.60	2.50	3.55	0.23	24.50	Bwssb Cut and Widening
	111.00	141.00			30.00	1.00	1.00	1.00	0.23	6.90	Bwssb Cut Portion
	141.00	171.00			30.00	1.00	1.00	1.00	0.23	6.90	Bwssb Cut Portion
	171.00	201.00			30.00	1.00	1.40	1.20	0.23	8.28	Bwssb Cut Portion
	201.00	231.00			30.00	1.40	1.20	1.30	0.23	8.97	Bwssb Cut Portion
	231.00	261.00			30.00	1.20	0.70	0.95	0.23	6.56	Bwssb Cut Portion
	261.00	291.00			30.00	0.70	0.70	0.70	0.23	4.83	Bwssb Cut Portion
	351.00	381.00			30.00	2.20	2.00	2.10	0.23	14.49	Bad Reaches
	381.00	404.00			11.00	2.30	2.30	2.30	0.23	5.82	Bad Reaches
	RHS From Devinagra Junction to towards Jalagaradamma temple										
	0.00	32.50			17.50	0.60	0.60	0.60	0.23	2.42	Widening Portion
	32.50	67.00			34.50	0.60	0.70	0.65	0.23	5.16	Widening Portion
	67.00	81.00			14.00	0.90	0.70	0.80	0.23	2.58	Widening Portion
							Total Qty in Cum			**142.19**	

Consultant

Assistant Engineer 6/12

Assistant Executive Engineer 6/12/17

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.